

Serial No. 09/943,658  
Docket No. 40655.4400

**Amendments To Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-17 (cancelled).

18. (currently amended) An online card present transaction method comprising the steps of:  
receiving, at a host website, an HTTP request from a user's browser of a user, said request having been redirected from a merchant's website of a merchant to said host website;  
sending said user a challenge string;  
authenticating said user by receiving authentication information from said user, wherein said authentication information corresponds to said user's a transaction account of said user;  
generating a secondary transaction account number, wherein said secondary transaction account number is valid for a single purchase transaction;  
associating said secondary transaction account number with said user's transaction account of said user;  
establishing an authenticated communication channel via an authentication process between a host system and said merchant; and  
communicating said secondary transaction account number over said authenticated communication channel to said merchant, wherein said merchant submits a payment request based on said secondary transaction account number.
19. (currently amended) The method of claim 18, wherein said authentication process comprises the steps of:  
embedding an encrypted host system signature in said user's browser of said user; and  
redirecting said user's browser of said user to said merchant, causing said merchant to authenticate said host system by decrypting said host system signature.
20. (currently amended) The method of claim 18, wherein said authentication process comprises the steps of:  
communicating a token to said merchant over a first communication channel;  
receiving a communication from said merchant over a second communication channel  
requesting said host system to confirm the issuance of said token; and  
confirming to said merchant that said host system issued said token.

Serial No. 09/943,658  
Docket No. 40655,4400

21. (original) The method of claim 18, further comprising the steps of prompting said user to insert a smart card into a smart card reader and to enter a personal identification number.

22. (original) The method of claim 18, wherein said authentication information comprises a signed challenge string and a digital certificate.

23. (currently amended) An online-card-present transaction method comprising the steps of:  
communicating with a user over a distributed network;  
recognizing the a presence of an authentication device on a user's computer system of a user;

redirecting said user to a host system website, causing said host system to authenticate said user based on data extracted from a transaction instrument by said authentication device;

generating a secondary transaction account number, wherein said secondary transaction account number is valid for a single purchase transaction;

associating said secondary transaction account number with an account of said user;

establishing an authenticated communication channel with said host system;

communicating said secondary transaction account number over said authenticated communication channel to said user, wherein said user submits a payment request based on said secondary transaction account number; and,

receiving account information including said secondary transaction account number from said host system over said authenticated communication channel, wherein said account information and said secondary transaction account number facilitates completion of a transaction between said user and a merchant.

24. (currently amended) The method of claim 23, wherein said step of generating said secondary transaction account number comprises the steps of:

receiving an encrypted host system signature; and

decrypting said encrypted host system signature to determine that said account information originated with said host system.

25. (original) The method of claim 23, said establishing an authenticated communication channel step further comprising the steps of:

receiving a host system token over a first communication channel, wherein said token identifies said host system; and

Serial No. 09/943,658  
Docket No. 40655,4400

communicating to said host system over a second communication channel to confirm that said token was issued by said host system.

Claims 26-34 (cancelled).

35. (currently amended) An online card-present transaction method, comprising the steps of:  
establishing an authenticated communication channel;  
receiving from a merchant over said authenticated communication channel, a user request to facilitate a transaction with said merchant;

communicating to a said merchant a challenge string to facilitate a user authentication process;

retrieving from said merchant a signed challenge string and a digital certificate originating from a user, ~~wherein said challenge string and said digital certificate are distinct from each other~~ and, wherein said user is authenticated by comparing said signed challenge string and said digital certificate;

retrieving a primary transaction account number associated with said digital certificate;  
generating a secondary transaction account number, wherein said secondary transaction account number is valid for a single purchase transaction;

associating said secondary transaction account number with said primary transaction account number; and

providing said secondary transaction account number to said merchant, wherein said merchant submits a payment request based on said secondary transaction account number.

36. (previously presented) The method of claim 35, further comprising causing said user to insert a smart card into a smart card reader and input a personal identification number.

37. (currently amended) The method of claim 35, further comprising the steps of:  
receiving said secondary transaction account number from said merchant as part of a settlement process; and,

applying a charge associated with said settlement process to a transaction account of said user associated with said secondary account transaction number.